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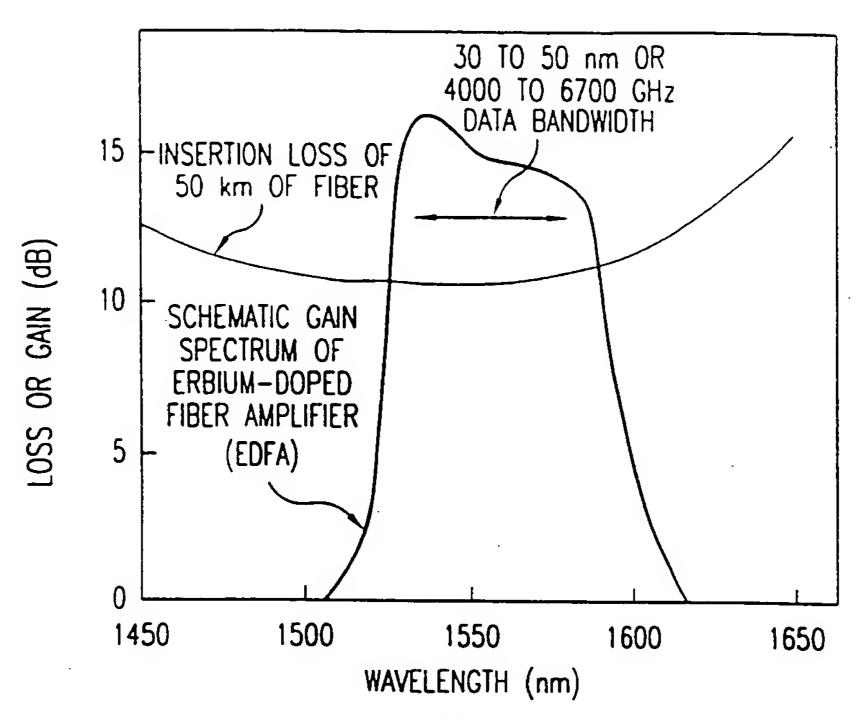


FIG. 1
PRIOR ART

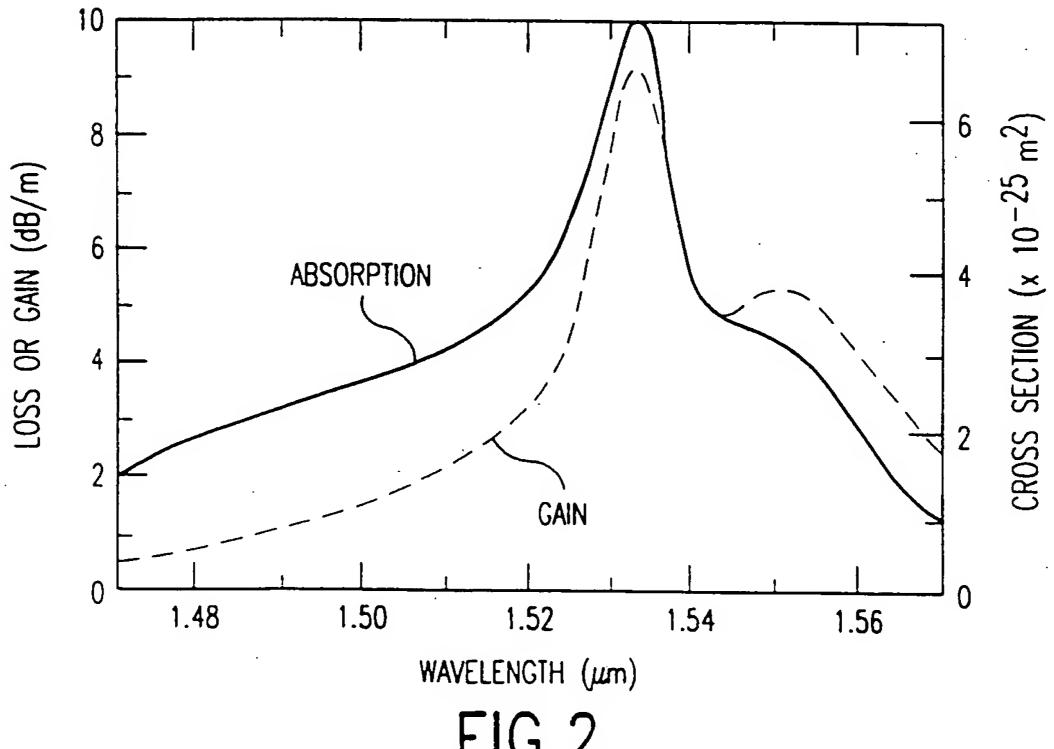
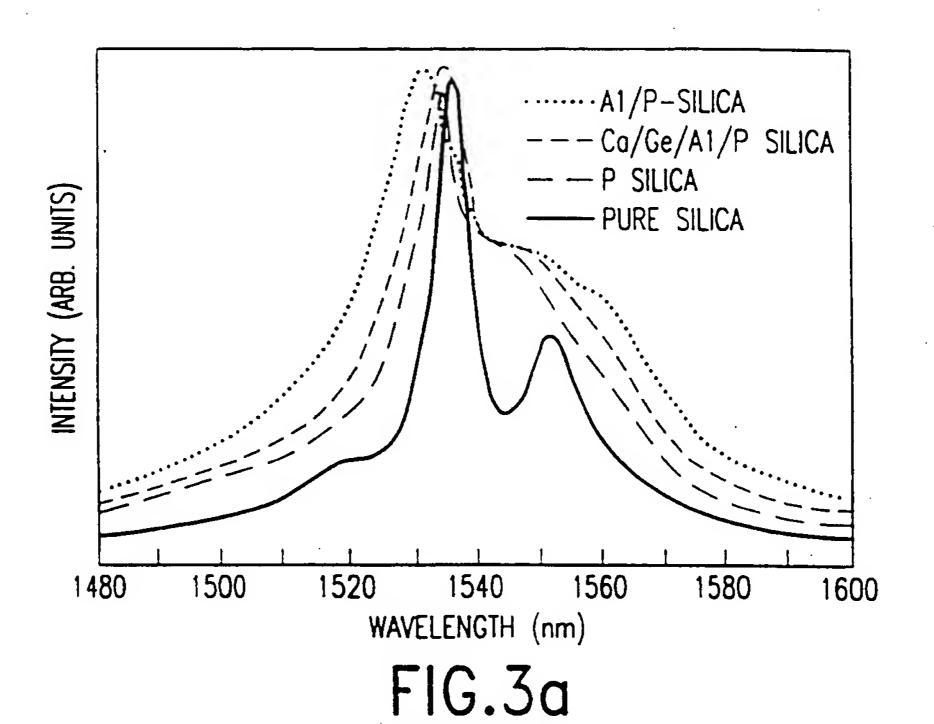


FIG.2
PRIOR ART

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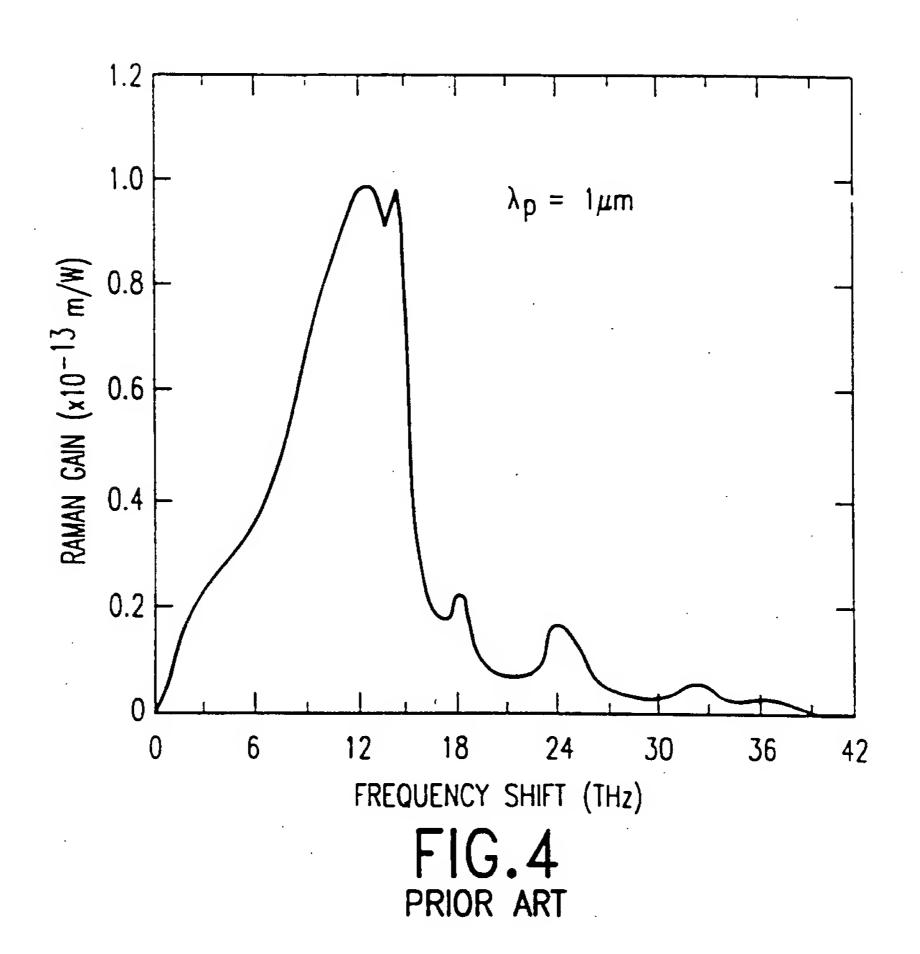
PRIOR ART

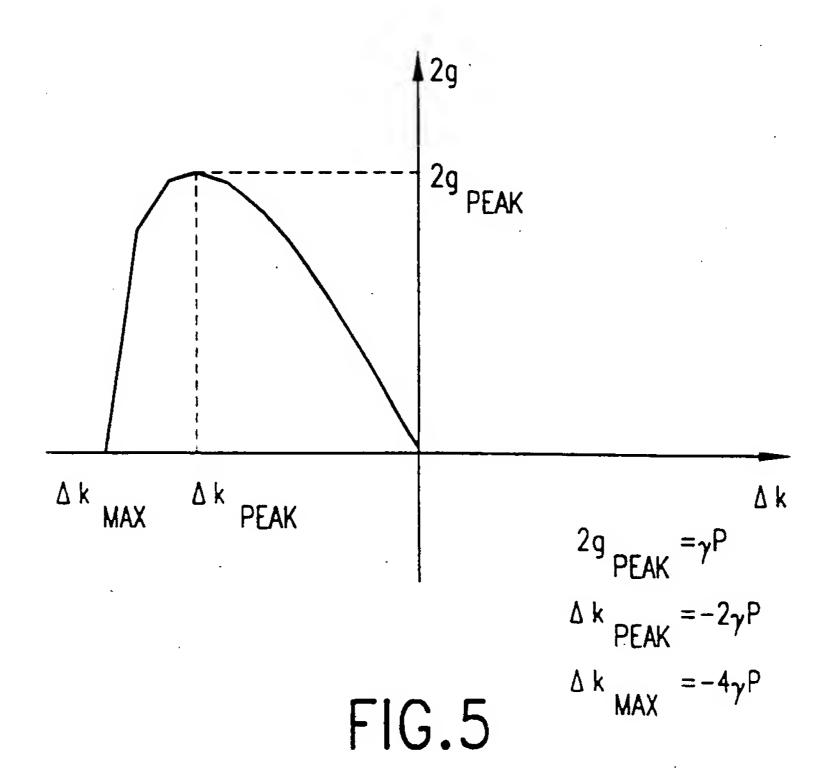
FIG.3b

PRIOR ART

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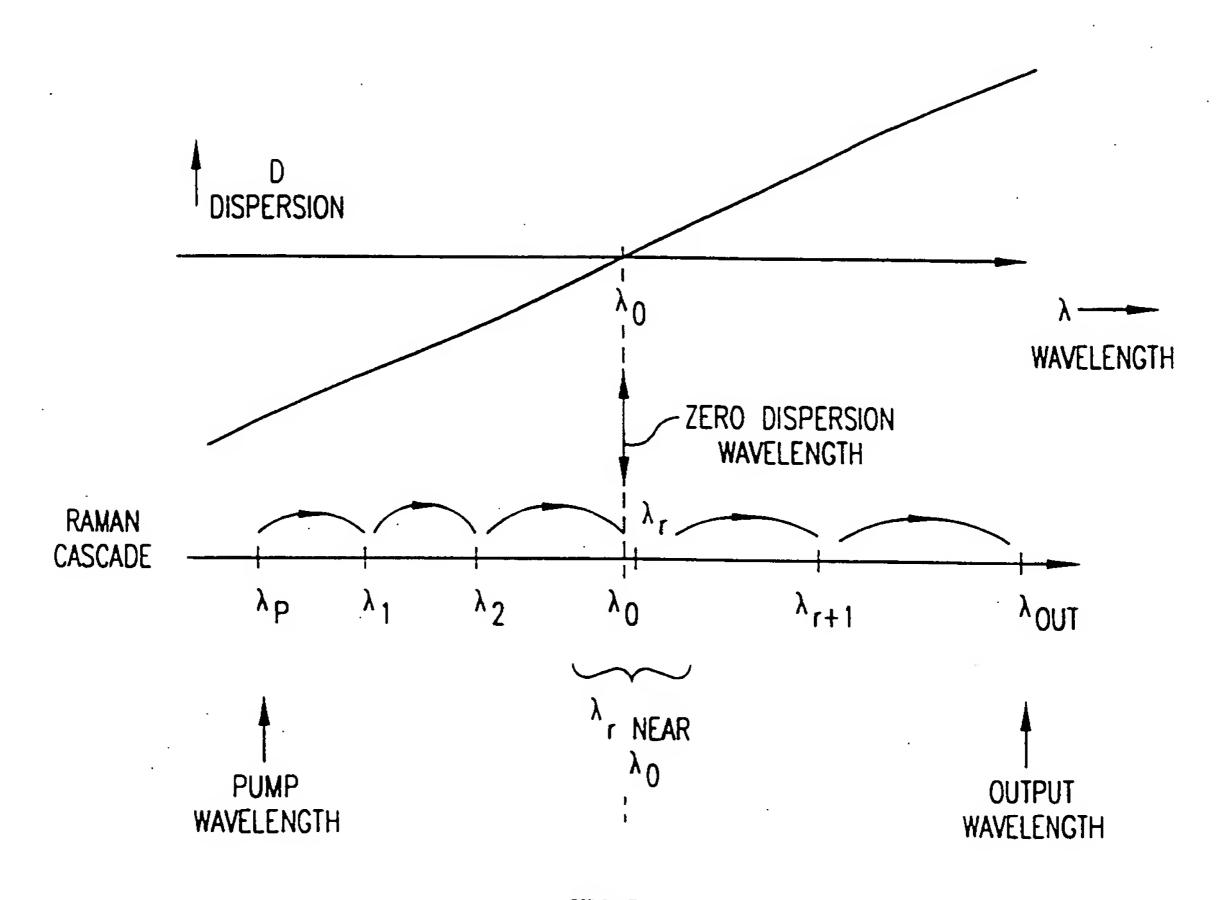
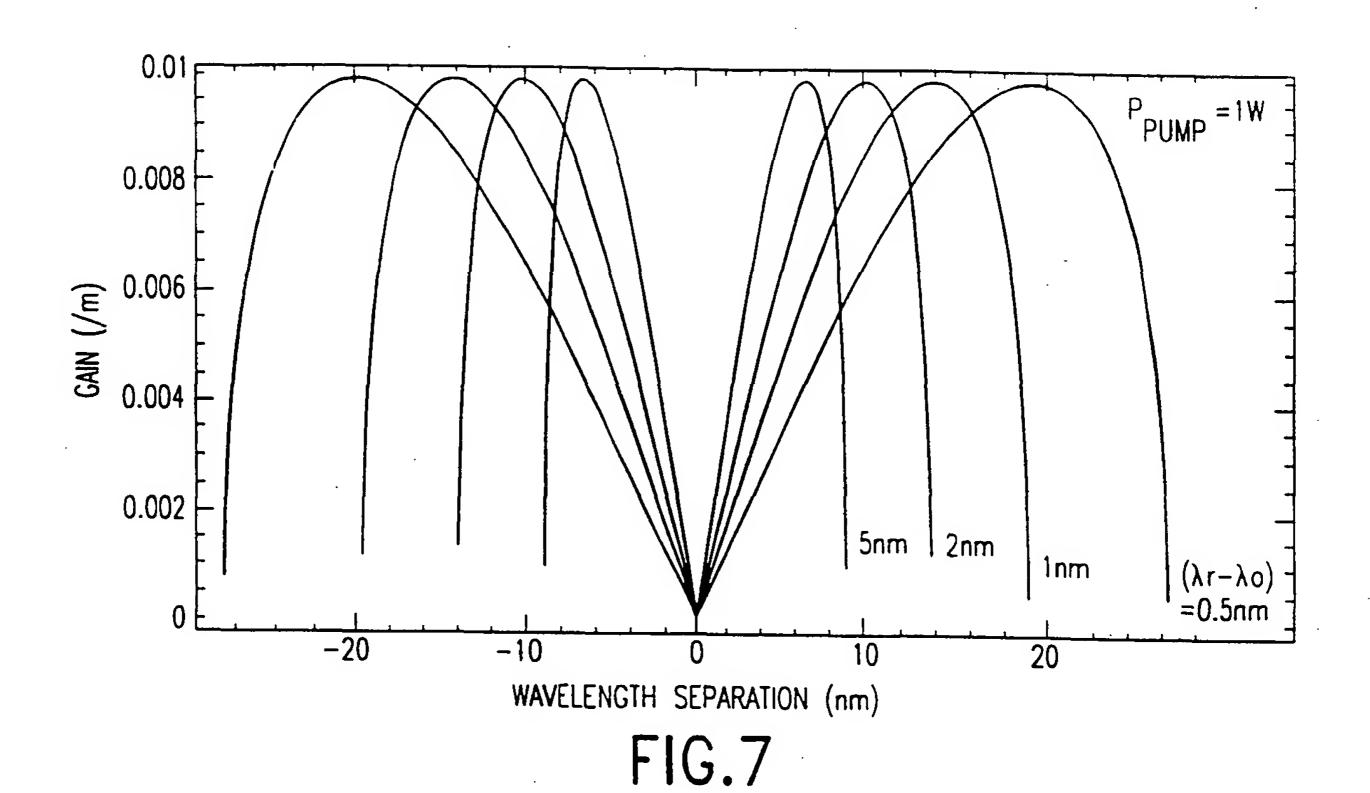
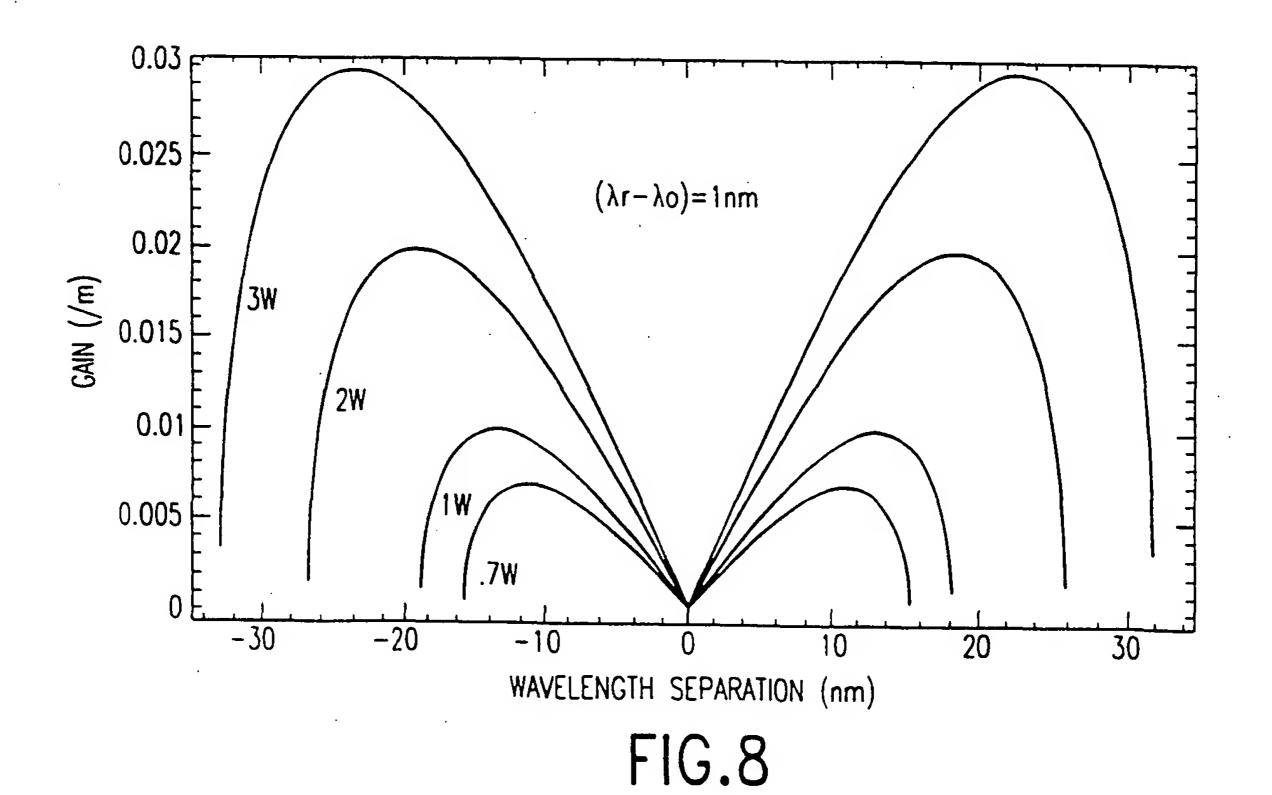


FIG.6

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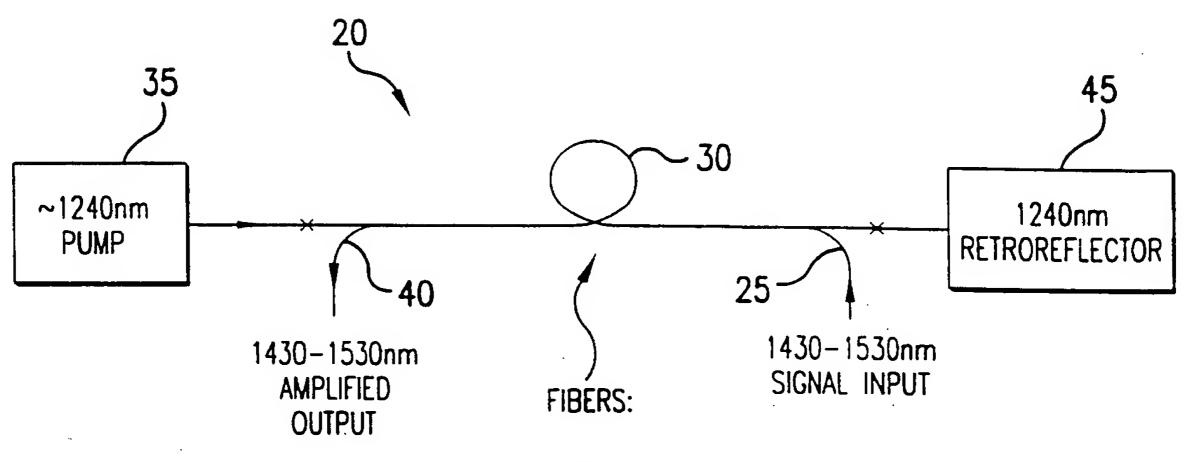
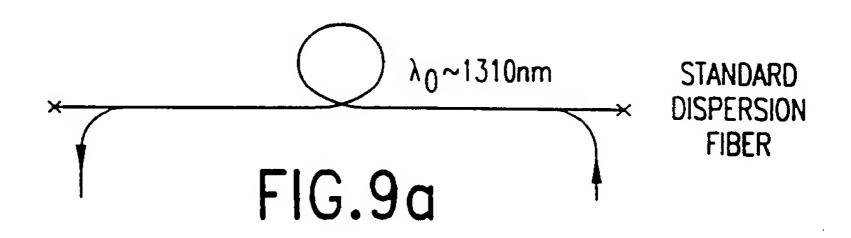


FIG.9



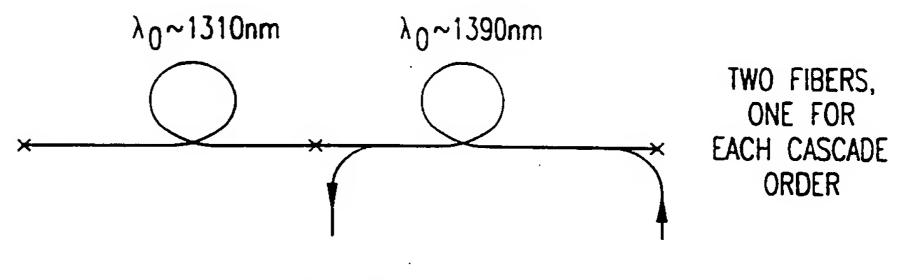
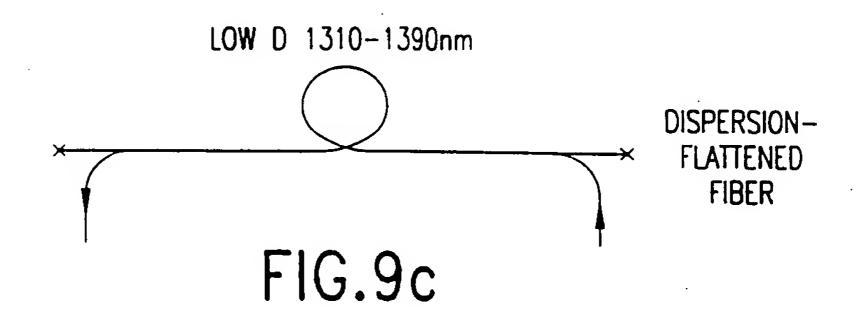
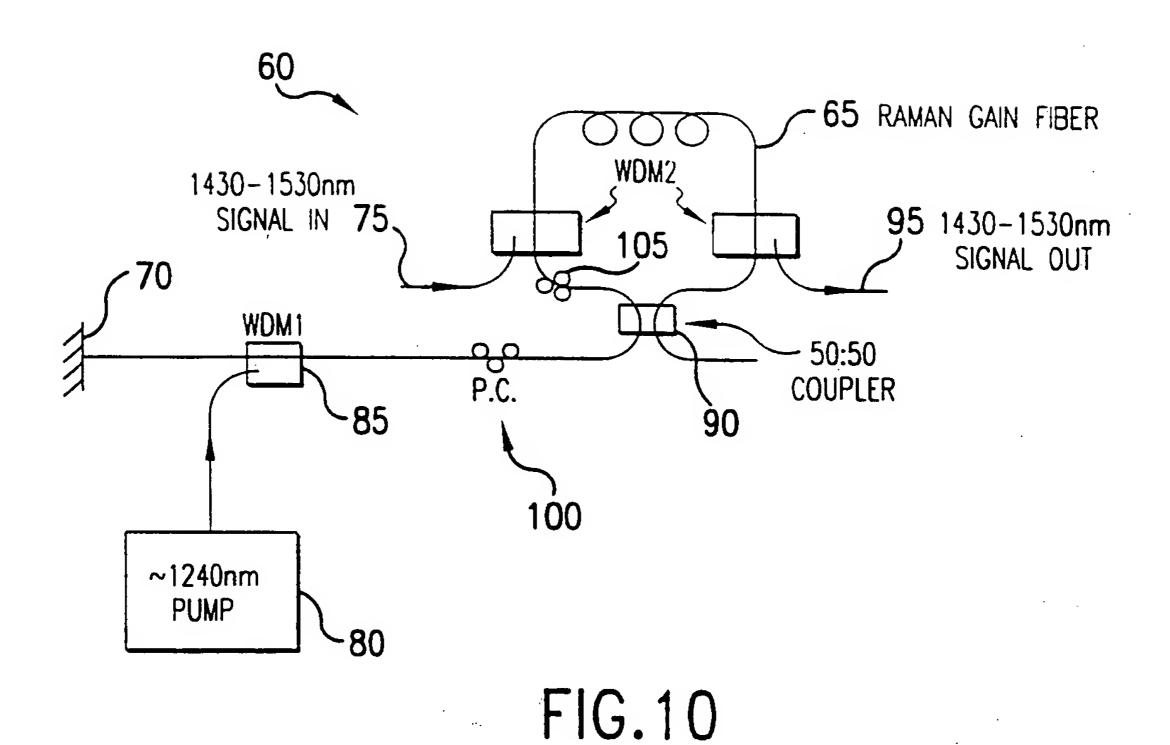
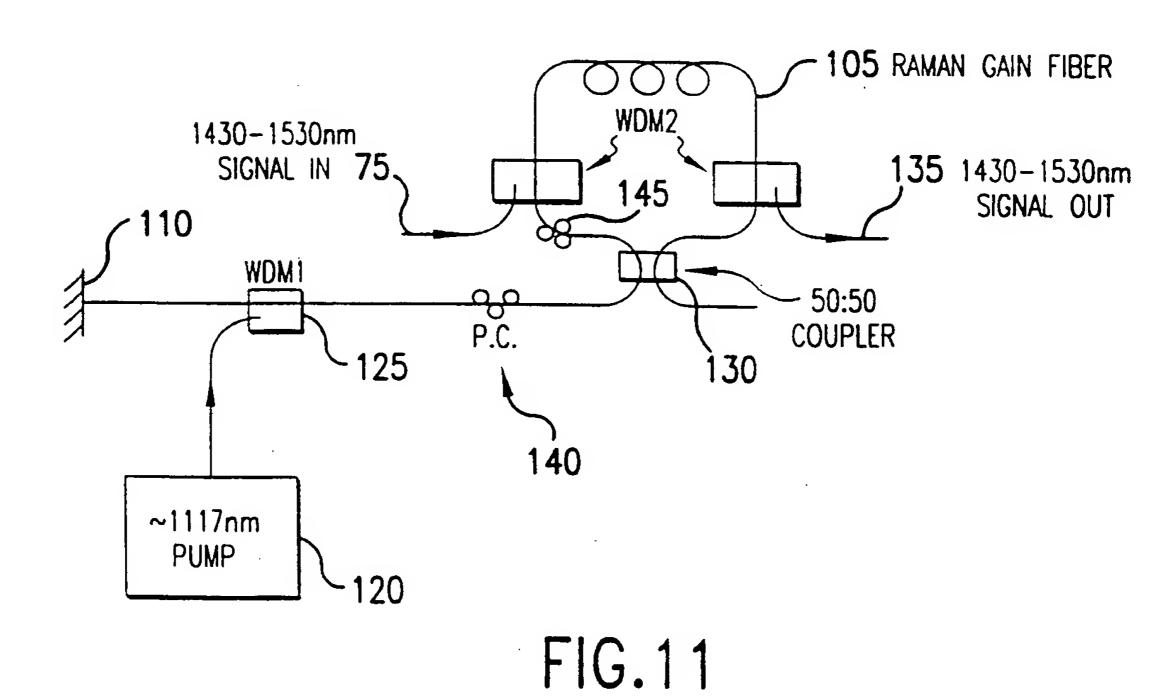


FIG.9b

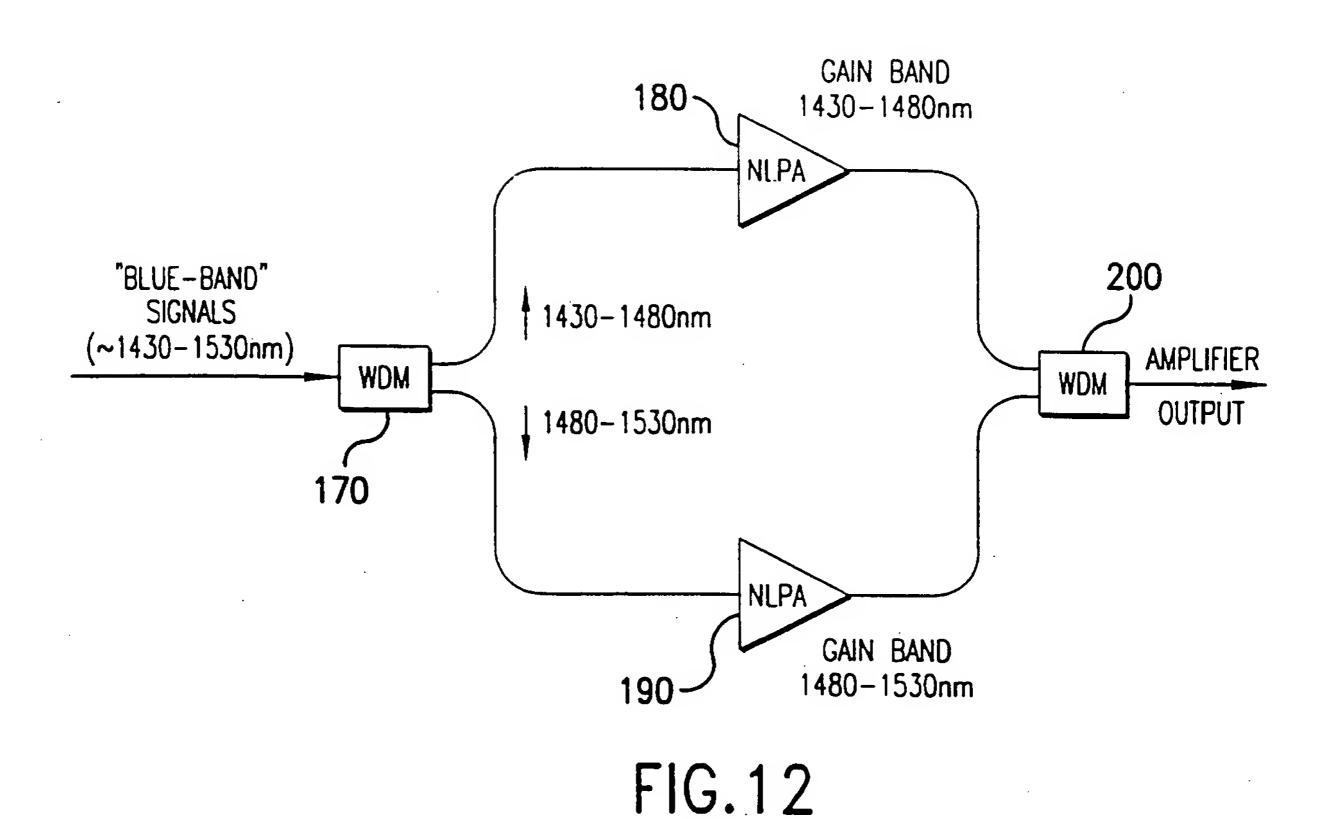


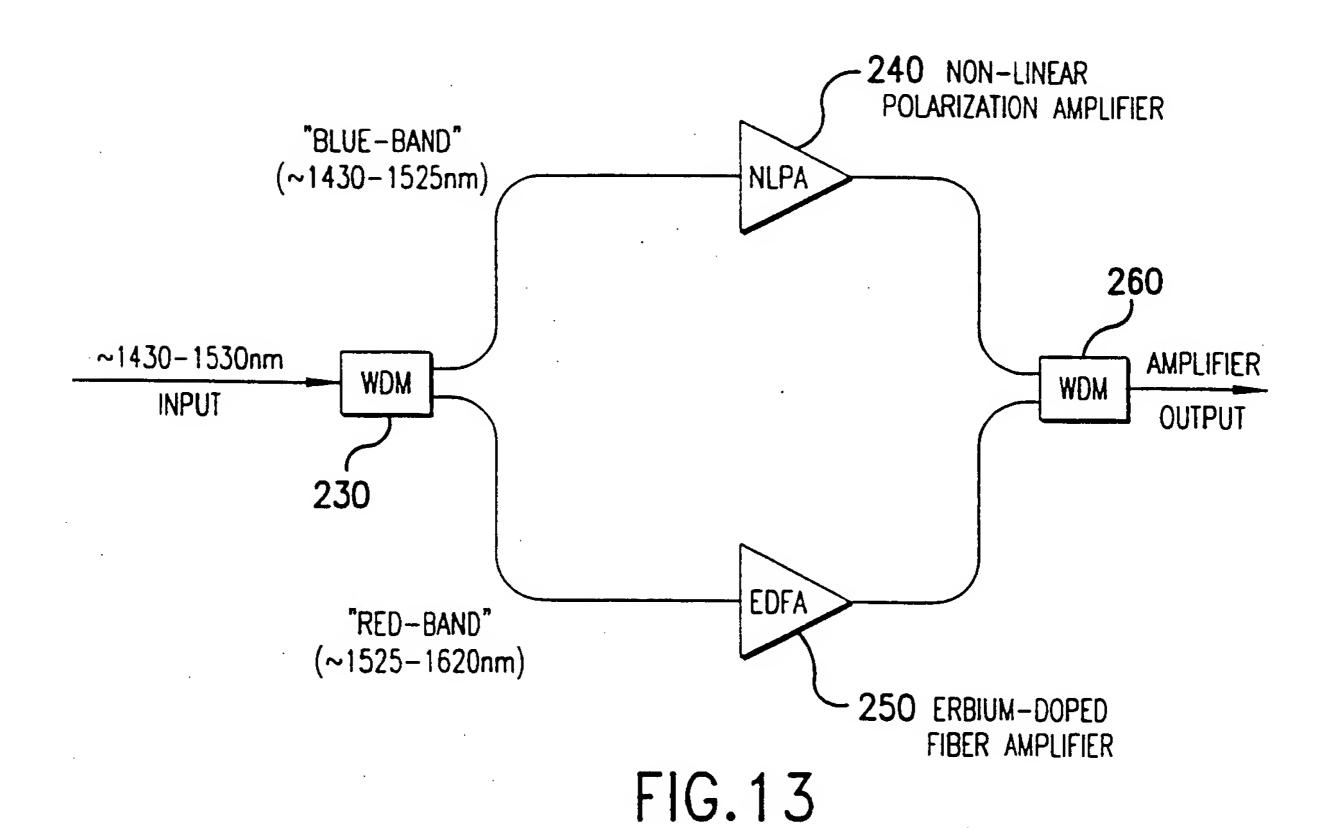
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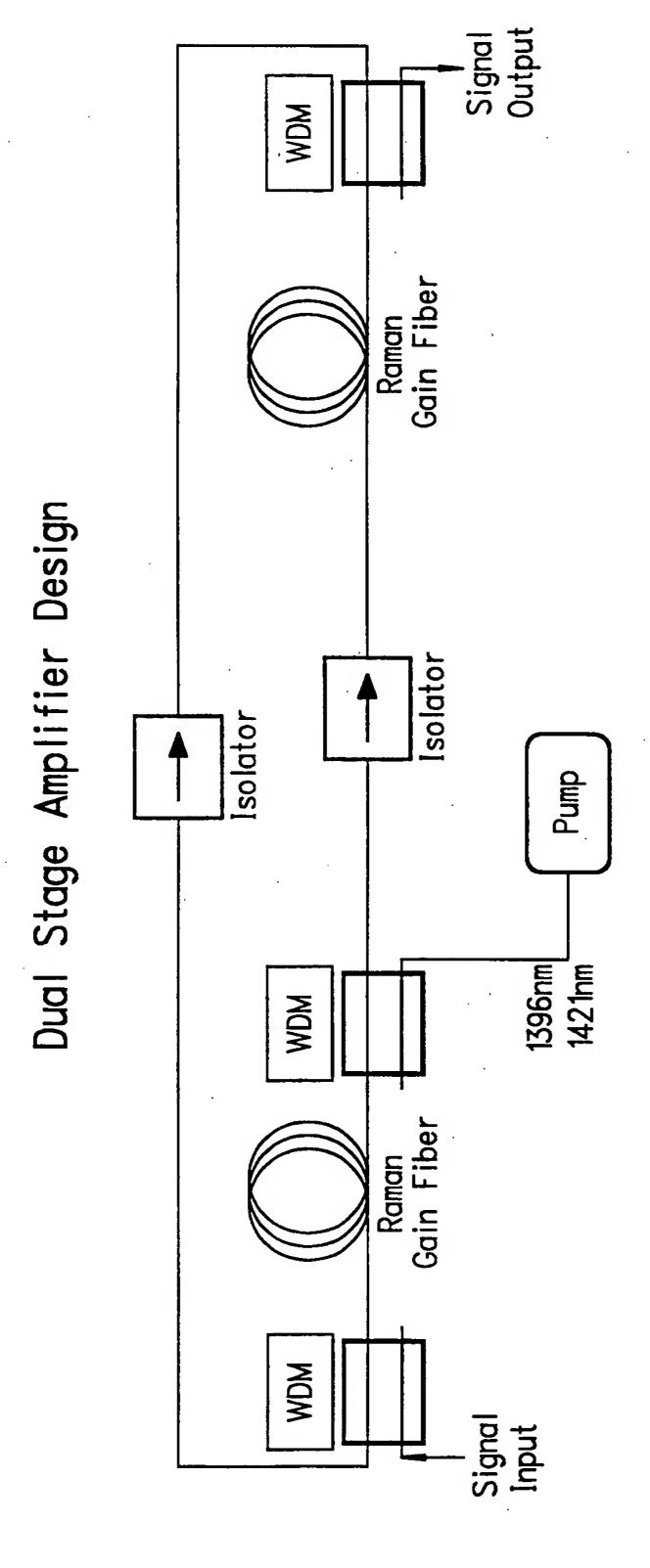


FIG. 12

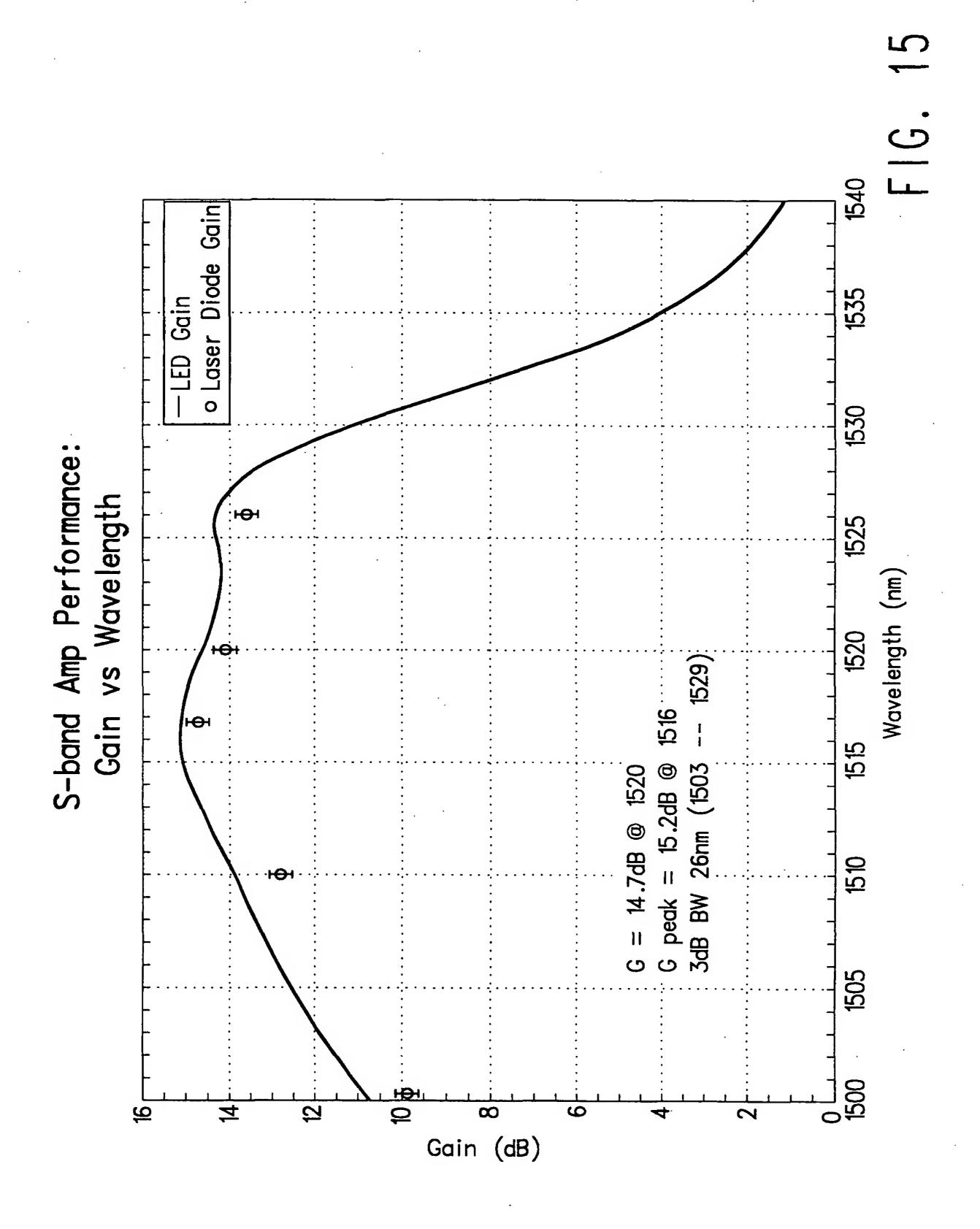
Second stage is power amp, depleting pump power

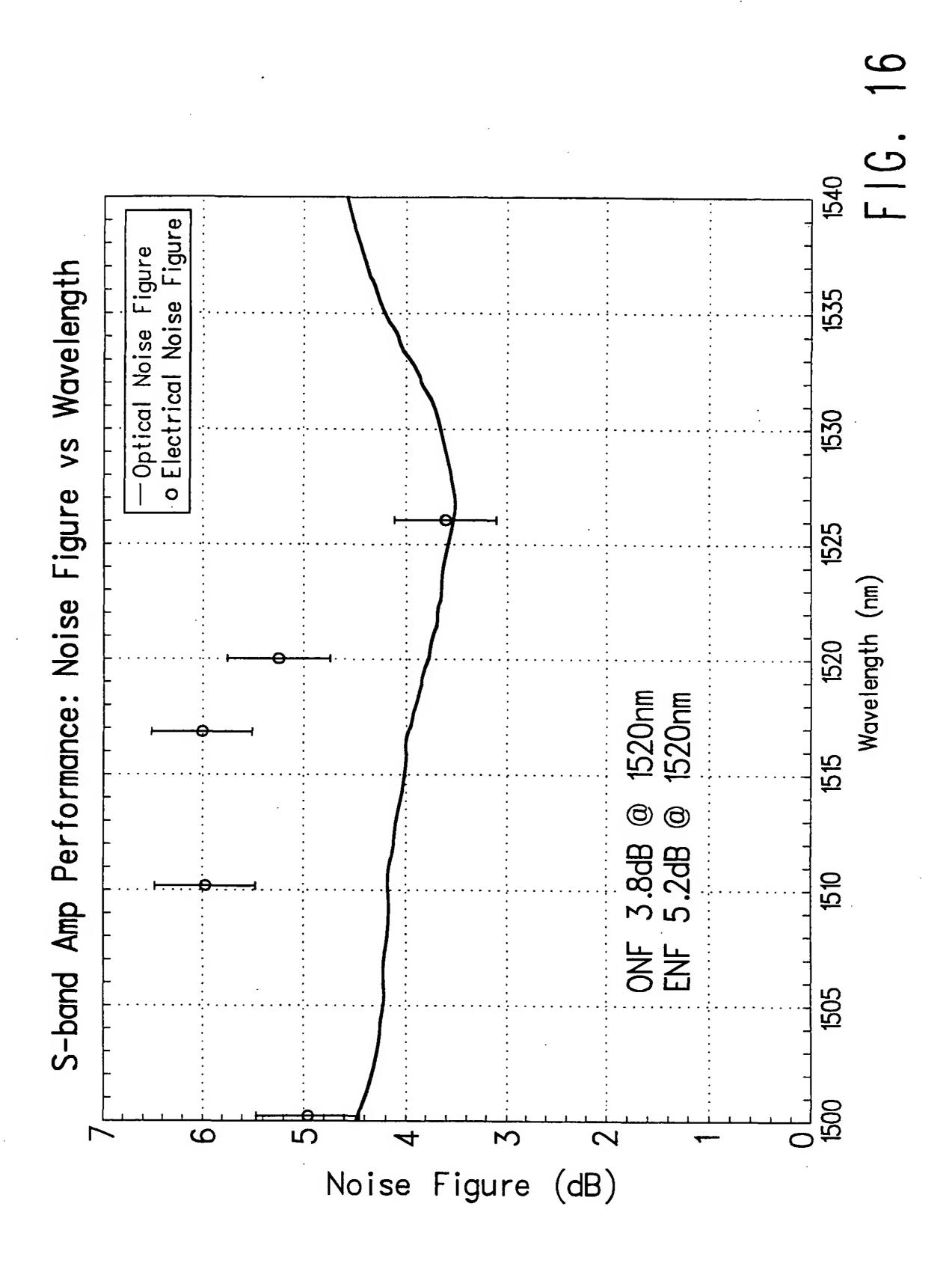
First stage is a low noise preamp

Isolators reduce multi-path interference

Double-Rayleigh scattering

(MPI)





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